

Form PTO 1449
(Rev. 2-32)U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
SNX-028Serial No.
09/927,771

Information Disclosure Statement by Applicant

Applicant: Erik W. Rasmussen

(Use several sheets if necessary)

Filed: August 10, 2001

Group: 2644

U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
BTP	A	4,589,137	5/13/86	Miller	381	94	1/3/85
	B	4,628,529	12/9/86	Borth et al.	381	94	7/1/85
	C	4,750,207	6/7/88	Gebert et al.	381	68.4	3/31/86
	D	4,759,071	7/19/88	Heide	381	68.4	8/14/86
	E	4,837,832	6/6/89	Fanshel	381	68.4	10/20/87
	F	5,097,510	3/17/92	Graupe	381	47	11/7/89
	G	5,170,434	12/8/92	Anderson	381	68	6/28/91
	H	5,285,502	2/8/94	Walton et al.	381	94	3/31/92
	I	5,289,544	2/22/94	Franklin	381	68.1	12/31/91
	J	5,412,735	5/2/95	Engebretson et al.	381	94	2/27/92
	K	5,511,128	4/23/96	Lindemann	381	92	1/21/94
	L	5,651,071	7/22/97	Lindemann et al.	381	68.2	9/17/93
	M	6,272,229	8/7/01	Backgaard	381	313	8/3/99
BTP	N	US2001/0038699	11/8/01	Hou	381	92	3/20/01

Foreign Documents

							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
BTP	O	WO 95/08248	3/23/95	International (PCT)				
	P	WO 99/09786	2/25/99	International (PCT)				
	Q	WO 99/39497	8/5/99	International (PCT)				
	R	WO 00/19770	4/6/00	International (PCT)				
	S	WO 01/69968	9/20/01	International (PCT)				
BTP	T	WO 01/72085	9/27/01	International (PCT)				

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

BTP	U	Greenberg, Julie E. et al., "Evaluation of an adaptive beamforming method for hearing aids", <i>J. Acoust. Soc. Am.</i> 91:3, pages 1662-1676 (March 1992)						
	V	Kollmeier, B. et al., "Binaural Noise-Reduction Hearing Aid Scheme with Real-Time Processing in the Frequency Domain", <i>Scand Audiol Suppl.</i> 38, pages 28-38 (1993)						
	W	Kollmeier, Birger et al., "Real-time multiband dynamic compression and noise reduction for binaural hearing aids", <i>Journal of Rehabilitation Research and Development</i> , Vol. 30: 1, pages 82-94 (1993)						
BTP	X	Wittkop, Thomas et al., "Speech Processing for Hearing Aids: Noise Reduction Motivated by Models of Binaural Interaction", <i>ACUSTICA - acta acustica</i> , Vol. 83, pages 684-699 (1997)						

Examiner

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Date Considered

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Technology Center 2600

Filed: 8/10/01

Group: 2644

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U.S. Patent Documents

Init.		Document No.	Date	Name	Class	Subclass	Filing Date
BTP	A	3,057,960	10/09/62	J. F. Kaiser	179	1	03/13/61
	B	5,602,962	02/11/97	Kellermann	395	2.35	09/07/94
	C	5,694,474	12/02/97	Ngo et al.	381	66	09/18/95
	D	5,836,790	11/17/98	Barnett	439	620	10/10/96
	E	5,978,490	11/02/99	Choi et al.	381	92	12/24/97
	F	6,023,514	02/08/00	Strandberg	381	94.7	12/22/97
	G	6,157,403	12/05/00	Nagata	348	171	08/04/97
	H	6,160,757	12/12/00	Tager	367	119	08/20/98
BTP	I	6,317,703	11/13/01	Linsker	702	190	10/17/97

Foreign Documents

Translation

Init.		Document No.	Date	Country	Class	Subclass	Yes	No
BTP	J	0 795 851	09/17/97	Europe	G10L 3	00	X	
	K	0 831 458	03/25/98	Europe	G10L 5	02	X	
	L	0 883 325	12/09/98	Europe	H04R 3	00	X	
	M	0 942 628	09/15/99	Europe	H04R 25	00	X	
	N	1 091 615	04/11/01	Europe	H04R 3	00	X	
	O	195 40 795	05/07/97	Germany	04R 1	40		X
	P	95/34983	12/21/95	PCT	H04M 1	19	X	
	Q	99/45741	09/10/99	PCT	H04R		X	
BTP	R	01/10169	02/08/01	PCT	H04R 25	00	X	

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

BTP	S	Hanson et al., "Cascade Sample Matrix Inversion Arrays", 1990, IEEE, pp. 36.5.1 -36.5.5 (in French)					
	T	Kellermann, Walter, "A Self-Steering Digital Microphone Array", 1991, IEEE, pp. 3581-3584.					
	U	Lleida et al., "Robust Continuous Speech Recognition System Based on a Microphone Array", 1998, IEEE, pp. 241-244.					
	V	Mahmoudi, Djarnila, "Speech Source Localization Using A Multi-Resolution Technique", 1998, IEEE, pp. 161-165.					
	W	Zhang et al., "Adaptive Beamforming By Microphone Arrays", 1995, IEEE, pp. 163-167.					
	X	International Search Report based on PCT/EP02/09022, dated September 8, 2003.					
BTP	Y	International Search Report based on PCT/EP02/09031, dated September 8, 2003.					

Examiner

J. J. J.

Date Considered

7/17/06

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Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. SNX-028		Serial No. Not yet assigned.		
Information Disclosure Statement by Applicant				Applicant: Erik W. Rasmussen				
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U.S. Patent Documents								
Init.		Document No.	Date	Name	Class	Subclass	Filing Date	
BTP	A	4,589,137	05/13/86	Miller	381	94	01/03/85	
	B	4,802,227	01/31/89	Elko et al.	381	92	04/03/87	
	C	5,347,496	09/13/94	Clark et al.	367	140	08/11/93	
	D	5,473,684	12/05/95	Bartlett et al.	379	387	04/21/94	
	E	5,473,701	12/05/95	Cezanne et al.	381	92	11/05/93	
	F	5,553,134	09/03/96	Allen et al.	379	387	05/18/95	
	G	5,648,936	07/15/97	Clark et al.	367	13	06/30/95	
	H	5,651,071	07/22/97	Lindemann et al.	381	68.2	09/17/93	
BTP	I	5,825,898	10/20/98	Marash	381	92	06/27/96	
Foreign Documents								
							Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No
BTP	J	0 679 044 A2	10/25/95	Europe	H04R	00	XX	
	K	2 202 942	10/05/88	Great Britan	G01H 3	10	XX	
	L	9-146443	06/06/97	Japan	G03H 3	00		XX
	M	11-18191	01/22/99	Japan	H04R 3	00		XX
	N	2000-47699	02/18/00	Japan	G10L 21	02		XX
	O	WO 95/08248	03/23/95	PCT	H04R 25	00	XX	
	P	WO 97/29614	08/14/97	PCT	H04R 3	00	XX	
	Q	WO 97/50186	12/31/97	PCT	H04B 1	12	XX	
	R	WO 98/47227	10/22/98	PCT	H03H 21	00	XX	
	S	WO 99/04598	01/28/99	PCT	H04R 3	00	XX	
	T	WO 99/09786	02/25/99	PCT	H04R 3	00	XX	
	U	WO 99/39497	08/05/99	PCT	H04M 9	08	XX	
	V	WO 99/52211	10/14/99	PCT	H03H 21	00	XX	
	W	WO 99/53336	10/21/99	PCT	G01S 5	02	XX	
	X	WO 00/33634	06/15/00	PCT	None	None		XX
BTP	Y	WO 00/41436	07/13/00	PCT	H04R 3	00		XX

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BTP	Z	Greenberg, Julie E., et al., "Evaluation of an Adaptive Beamforming Method for Hearing Aids"; J. Acoustical Society of America, Vol. 91, No. 3 (March 1992): pgs. 1662-1676.		
	AA	Kollmeier, B., et al., "Binaural Noise-Reduction Hearing Aid Scheme with Real-Time Processing in the Frequency Domain"; Scand Audiol (1993); Suppl. 38: pgs. 28-38.		
	AB	Kollmeier, Birger, et al., "Real-time Multiband Dynamic Compression and Noise Reduction for Binaural Hearing Aids"; Journal of Rehabilitation Research and Development, Vol. 30 No. 1 (1993): pgs. 82-94.		
GTP	AC	Wittkop, Thomas, et al., "Speech Processing for Hearing Aids: Noise Reduction Motivated by Models of Binaural Interaction"; ACUSTICA - acta acustica, Vol. 83 (1997): pgs. 684-699.		
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